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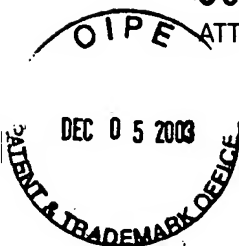
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December 5, 2003

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Commissioner for Patents  
P.O. Box 1450  
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**Art Unit 1645**

Re: U.S. Utility Patent Application  
Application No. 10/622,064; Filed: July 18, 2003  
For: **Hapten-Carrier Conjugates and Uses Thereof**  
Inventors: Bachmann *et al.*  
Our Ref: 1700.0300001/BJD/SJE

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Second Supplemental Information Disclosure Statement;
2. Form PTO-1449 (1 sheet citing 5 documents);
3. 5 documents cited in Form PTO-1449 attached; and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents  
December 5, 2003  
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "B. Del Buono", written over a horizontal line.

Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

BJD/SJE/lam  
Enclosures

206752.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Bachmann *et al.*

Appl. No.: 10/622,064

Filed: July 18, 2003

For: **Hapten-Carrier Conjugates and  
Uses Thereof**

Confirmation No.: 5977

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1700.0300001/BJD/SJE

**Second Supplemental Information Disclosure Statement**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' First Supplemental Information Disclosure Statement filed on November 17, 2003, in connection with the above-captioned application.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Copies of the documents are submitted herewith.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

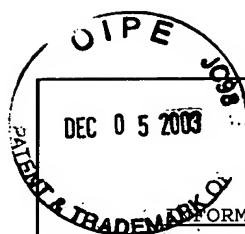
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Date: December 5, 2003

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FORM PTO-1449

SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0300001/BJD/SJEAPPLICATION NO.  
10/622,064APPLICANT  
BACHMANN et al.FILING DATE  
July 18, 2003GROUP  
1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC4	2002/0064529 A1	05/30/2002	Bohannon			11/28/2001
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO9	WO 96/30049 A2 WO 96/30049 A3	10/03/1996 03/06/1997	WIPO WIPO			Yes No
							Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>145</u>	Milich, D.R., et al., "The Hepatitis B Virus Core and e Antigens Elicit Different Th Cell Subsets: Antigen Structure Can Affect Th Cell Phenotype," J. Virol. 71:2192-2201, American Society for Microbiology (1997)
	AS	<u>145</u>	Milich, D.R., et al., "The Hepatitis Nucleocapsid as a Vaccine Carrier Moiety," Ann. N.Y. Acad. Sci. 754:187-201, New York Academy of Sciences (1995)
	AT	<u>145</u>	"Annex to Form PCT/ISA/206. Communication Relating to the Results of the Partial International Search for PCT/EP03/07850," 3 pages, European Patent Office, The Netherlands (mailed November 6, 2003)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.